

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Michael R. Rosen et al.

U.S. Serial No.: 10/757,827

Examiner: Anoop K. Singh

Filed: January 15, 2004

Conf. No.: 5518

Group Art Unit: 1632

For: MESENCHYMAL STEM CELLS AS A VEHICLE FOR ION CHANNEL  
TRANSFER

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I hereby certify that this correspondence is being electronically transmitted to the United States Patent and Trademark Office via the Office electronic filing system addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Date: April 21, 2010

Signature: /Loretta E. Charles/  
Loretta E. Charles

**RESPONSE TO FINAL OFFICE ACTION DATED JANUARY 21, 2010**

This paper is submitted in response to the Final Office Action mailed on January 21, 2010 in connection with the above-identified application. A shortened period of reply of three months was set. This response is therefore timely filed.

Applicants respectfully request that the Examiner consider the remarks set forth herein.

A listing of the **claims** begins on page 2 of this paper.

**Remarks** begin on page 5 of this paper.